



# *Common Market for Eastern and Southern Africa*



## **EDICT OF GOVERNMENT**



In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them.

COMESA 034 (2004) (English): Standard for  
Formula Foods for Use in Weight Control Diets



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**COMESA HARMONISED  
STANDARD**

**COMESA/DHS  
034: 2004**

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**Standard for Formula Foods for Use in Weight  
Control Diets**

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REFERENCE: DHS 034: 2004

## Foreword

The Common Market for Eastern and Southern Africa (COMESA) was established in 1994 as a regional economic grouping consisting of 20 member states after signing the co-operation Treaty. In Chapter 15 of the COMESA Treaty, Member States agreed to co-operate on matters of standardisation and Quality assurance with the aim of facilitating the faster movement of goods and services within the region so as to enhance expansion of intra-COMESA trade and industrial expansion.

Co-operation in standardisation is expected to result into having uniformly harmonised standards. Harmonisation of standards within the region is expected to reduce Technical Barriers to Trade that are normally encountered when goods and services are exchanged between COMESA Member States due to differences in technical requirements. Harmonized COMESA Standards are also expected to result into benefits such as greater industrial productivity and competitiveness, increased agricultural production and food security, a more rational exploitation of natural resources among others.

COMESA Standards are developed by the COMESA experts on standards representing the National Standards Bodies and other stakeholders within the region in accordance with international procedures and practices. Standards are approved by circulating Final Draft Harmonized Standards (FDHS) to all member states for a one Month vote. The assumption is that all contentious issues would have been resolved during the previous stages or that an international or regional standard being adopted has been subjected through a development process consistent with accepted international practice.

COMESA Standards are subject to review, to keep pace with technological advances. Users of the COMESA Harmonized Standards are therefore expected to ensure that they always have the latest version of the standards they are implementing.

This COMESA standard is technically identical to the Codex Standard *CODEX STAN 181-1991*.

<p>A COMESA Harmonized Standard does not purport to include all necessary provisions of a contract. Users are responsible for its correct application.</p>
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## INTRODUCTION

The Codex Standard for Formula Foods for Use in Weight Control Diets was adopted by the Codex Alimentarius Commission at its 19th Session in 1991. This standard has been submitted to all Member Nations and Associate Members of FAO and WHO for acceptance in accordance with the General Principles of the Codex Alimentarius.

### **CODEX STANDARD FOR FORMULA FOODS FOR USE IN WEIGHT CONTROL DIETS CODEX STAN 181-1991**

#### **1. SCOPE**

This standard applies to formula foods for use in weight control diets, as defined in Section 2.

It does not apply to prepackaged meals controlled in energy and presented in the form of conventional foods.

#### **2. DESCRIPTION**

Formula foods for use in weight control diets are foods which, when presented as "ready-to-serve" or when prepared in conformity with the directions for use, are presented as a replacement for all or part of the total daily diet.

#### **3. ESSENTIAL COMPOSITION AND QUALITY FACTORS**

##### **3.1 Energy Content**

3.1.1 A formula food presented as a replacement for all meals of the daily diet shall provide not less than 800 kcal (3350 kJ) and not more than 1200 kcal (5020 kJ). The individual portions or servings contained in these products shall provide approximately one third or one fourth of the total energy of the product depending on whether the recommended number of portions or servings per day is 3 or 4 respectively.

3.1.2 A formula food presented as a replacement for one or more meals of the daily diet shall provide not less than 200 kcal (835 kJ) and not more than 400 kcal (1670 kJ) per meal. When such products are presented as a replacement for the major part of the diet the total energy intake shall not exceed 1200 kcal (5020 kJ).

##### **3.2 Nutrient Content**

###### **3.2.1 Protein**

3.2.1.1 A minimum of 25% and a maximum of 50% of the energy available from the food, when ready-to-serve, shall be derived from its protein content. The total amount of protein shall not exceed 125 g per day.

3.2.1.2 The protein shall be:

- (i) of a nutritional quality equivalent to egg or milk protein (the reference protein);
- (ii) where the protein quality is less than the reference protein, the minimum levels should be increased to compensate for the lower protein quality. No protein with a quality of less than 80% of that of the reference protein shall be used in a formula food for use in a weight control diet.

3.2.1.3 Essential amino acids may be added to improve protein quality only in amounts necessary for this purpose. Only L-forms of amino acids shall be used, except that DL-methionine may be used.

### 3.2.2 Fat and linoleate

Not more than 30% of the energy available from the food shall be derived from fat including not less than 3% of the energy available derived from linoleic acid (in the form of a glyceride).

### 3.2.3 Vitamins and minerals

3.2.3.1 For a formula food represented as a replacement for all meals per day, at least 100% of the amounts of vitamins and minerals specified below shall be present in the daily intake. Other essential nutrients not specified below may also be included.

Vitamin A	600	µg retinol equivalents
Vitamin D	2.5	µg
Vitamin E	10	mg
Vitamin C	30	mg
Thiamine	0.8	mg
Riboflavin	1.2	mg
Niacin	11	mg
Vitamin B <sub>6</sub>	2	mg
Vitamin B <sub>12</sub>	1	µg
Folate	200	µg
Calcium	500	mg
Phosphorus	500	mg
Iron	16	mg
Iodine	140	µg
Magnesium	350	mg
Copper	1.5	mg
Zinc	6	mg
Potassium	1.6	g
Sodium	1.0	g

3.2.3.2 For a formula food represented as a replacement for a single meal, the amounts of vitamins and minerals shall be reduced below the amounts specified in 3.2.3.1 to provide a minimum of 33% or 25% of these amounts, depending on whether the recommended number of servings per day is 3 or 4 respectively.

## 3.3 Ingredients

Formula foods for weight control shall be prepared from protein constituents of animals and/or plants

which have been proved suitable for human consumption and from other suitable ingredients necessary to achieve the essential composition of the product as set out in Sections 3.1 and 3.2 above.

#### **4. FOOD ADDITIVES**

Food additives cleared by the Joint FAO/WHO Expert Committee on Food Additives shall be permitted at levels not exceeding the equivalent of their Acceptable Daily Intake.

#### **5. CONTAMINANTS**

##### **5.1 Pesticide Residues**

The product shall be prepared with special care under good manufacturing practices, so that residues of those pesticides which may be required in the production, storage or processing of the raw materials or the finished food ingredient do not remain, or, if technically unavoidable, are reduced to the maximum extent possible.

##### **5.2 Other Contaminants**

The product shall be free from residues of hormones and antibiotics, as determined by means of agreed methods of analysis, and practically free from other contaminants, especially pharmacologically active substances.

#### **6. HYGIENE**

**6.1** To the extent possible in good manufacturing practice, the product shall be free from objectionable matter.

**6.2** When tested by appropriate methods of sampling and examination, the product:

- (a) shall be free from pathogenic microorganisms;
- (b) shall not contain any substances originating from microorganisms in amounts which may represent a hazard to health; and
- (c) shall not contain any other poisonous or deleterious substances in amounts which may represent a hazard to health.

## **7. PACKAGING**

**7.1** The product shall be packed in containers which will safeguard hygienic and other qualities of the food. When in liquid form, the product shall be thermally processed and packed in hermetically sealed containers to ensure sterility; nitrogen and carbon dioxide may be used as packing media.

**7.2** The containers, including packaging materials, shall be made only of substances which are safe and suitable for their intended uses. Where the Codex Alimentarius Commission has established a standard for any such substances used as packaging materials, that standard shall apply.

## **8. FILL OF CONTAINER**

In the case of products in ready-to-eat form, the fill of container shall be:

- (a) Not less than 80% v/v for products weighing less than 150 g (5 oz);
- (b) not less than 85% v/v for products in the weight range 150-250 g (5-8 oz); and
- (c) not less than 90% v/v for products weighing more than 250 g (8 oz)

of the water capacity of the container. The water capacity of the container is the volume of distilled water at 20° C which the sealed container will hold when completely filled.

## **9. LABELLING**

In addition to the appropriate Sections of the General Standard for the Labelling of and Claims for Prepackaged Foods for Special Dietary Uses (CODEX STAN 146-1985)<sup>1</sup>, the following specific provisions apply:

### **9.1 The Name of the Food**

The name of the food shall be "Meal Replacement for Weight Control".

### **9.2 List of Ingredients**

A complete list of ingredients shall be declared in accordance with Section 4.2 of the General Standard.

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<sup>1</sup> Hereafter referred to as "General Standard"



### **9.3 Declaration of Nutritive Value**

9.3.1 The nutritive value shall be declared on the label per 100 grammes or 100 ml of the food as sold and, where appropriate, per specified quantity of the food as suggested for consumption:

- (a) the amount of energy expressed in kilocalories (kcal) and kiloJoules (kJ);
- (b) the amounts of protein, available carbohydrates and fat expressed in grammes;
- (c) the amounts of vitamins and minerals in Section 3.2.3 expressed in metric units;
- (d) the amounts of other nutrients may also be declared.

9.3.2 If the fatty acid composition is declared on the label, it shall be done in accordance with the Codex Guidelines on Nutrition Labelling (CAC/GL 1-1979 (Rev. 1-1991), Codex Alimentarius Volume 1).

9.3.3 In addition, the quantities of vitamins and minerals may be expressed as a percentage of the Reference RDA in accordance with the Codex Guidelines on Nutrition Labelling.

9.3.4 In countries where serving sizes are normally used, the information described in Sections 9.3.1 to 9.3.3 may be given per serving only as quantified on the label or per portion provided that the number of servings or portions contained in the package is stated.

9.3.5 If the directions for use indicate that the food should be combined with other ingredient(s), the nutritive value of the final combination may be provided on the label in addition to the declaration required in Section 9.3.1.

### **9.4 Date Marking**

The date of minimum durability shall be declared in accordance with Section 4.8 of the General Standard.

### **9.5 Storage Instructions**

#### **9.5.1 Un-opened food**

Any special conditions for the storage of the food shall be declared on the label if the validity of the date depends thereon.

#### **9.5.2 Opened food**

Storage instructions of opened packages of the food shall be included on the label to ensure that the opened food maintains its wholesomeness and nutritive value. A warning should be included on the label if the food is not capable of being stored after opening or is not capable of being stored in the container after opening.

### **9.6 Additional Provisions**

9.6.1 The label and labelling shall not make any reference to the rate or amount of weight loss which may

result from the use of the food or to a reduction in the sense of hunger or an increase in the sense of satiety.

9.6.2 The label or labelling should make reference to the importance of maintaining an adequate daily fluid intake when formula foods for weight control are used.

9.6.3 If the food provides a daily intake of sugar alcohols in excess of 20 g per day, there shall be a statement on the label to the effect that the food may have a laxative effect.

9.6.4 The label and labelling shall carry a statement to the effect that the food may be useful in weight control only as part of an energy-controlled diet.

9.6.5 For those products presented as replacements of the total daily diet, the label shall contain a prominent statement recommending that, if the food is used for more than six weeks, medical advice should be sought.